

OXC-4919-63

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1 May 1963

**MEMORANDUM OF TRAVEL**

**SUBJECT : Ejection Seat Tests - OXCART**

1. During the week of 22 April the undersigned visited Wright Patterson Air Force Base and Edwards Air Force Base for the purpose of finalizing test procedures on the dummy ejection seat program. These tests will be done out of a modified F-106 aircraft at the 6511th Test Group (P) NAF, El Centro, California. Photo aircraft and additional ground camera coverage will be provided by Edwards Air Force Base.

2. Tests to be accomplished and planned dates are as follows:

a. May 17 - Ground ejection out of the F-106 to check out the system.

b. June 4 - Ejection at 20M feet and Mach .9. Four second delay before seat-dummy separation.

c. June 11 - Ejection at 50M feet and Mach 1.44 with .6 second seat-dummy separation. This test simulates ejection at 69M feet and Mach 3.2.

d. June 18 - Ejection at 48M feet and Mach 1.7. The full pressure suit will be used on this test. Four second seat-dummy separation.

e. June 25 - Maximum altitude of F-106 aircraft. This will provide greatest fall on the first stage parachute.

3. Telemetry of first stage parachute opening forces will be recorded on all tests. Tri-axial accelerometers will be used on the seat and dummy. A tri-axial rate gyro will be employed to record rotation of the dummy while falling on the first stage parachute.

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REMARKS

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**SECRET**

USAF review(s) completed.

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4. The above testing dates are tentative in that if any malfunctions occur the program will be stopped until the problem is resolved. It is the opinion of the undersigned that seat stabilization problems will occur before seat-dummy separation occurs (4 seconds). If this problem materializes then it would be the responsibility of Lockheed to accomplish some "fix" to stabilize the seat during the four second period. This opinion was relayed to [ ] by letter on 22 March 1963.

5. In view of the nature of the above tests a classification of SECRET has been established to preclude news releases.

SIGNED

[ ] DD/OSA [ ] (1 May 1963)

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